

# Box-type metallized polyester film capacitor[CL23B MPES]

**SINOCAPA®**

**TYPE CL23B**

**Box-type metallized polyester  
film capacitor**



FEATURES:

High reliability

Box type provides the identical outer appearance

High dv/dt ability and small size due to stacked construction

## SPECIFICATIONS

Reference Standard	GB7332 (IEC60384-2), CECC 30400		
Climatic Category	55/100/56		
Rated Voltage	50/63V、100V、250V、400V		
Capacitance Range	0.0010~2.2uF		
Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)		
Total Self-inductance	≈7nH * leads length:~2mm		
Voltage Proof	1.6UR (5s)		
Dissipation Factor	Frequency	CR≤0.1uF	CR>0.1uF
	1kHz	≤0.8%	≤0.8%
	10kHz	≤1.5%	≤1.5%
	100kHz	≤3.0%	-
Insulation Resistance	UR>100V	≥15000MΩ, CR≤0.33uF 20°C, 100V, 1min	
		≥5000S, CR>0.33uF 20°C, 100V, 1min	
	UR≤100V	≥15000MΩ, CR≤0.33uF 20°C, 10V, 1min	
		≥5000S, CR>0.33uF 20°C, 10V, 1min	
Maximum Pulse Rise Time(dv/dt): If the working voltage (U) is lower than the rated voltage(UR),the capacitor can be worked at a higher dv/dt.In this case, the maximum allowed dv/dt is obtained by multiplying the right value with UR/U.	UR(V)	dv/dt(V/us)	
	50/63	120	
	100	150	
	250	200	
	400	300	

reliability (DIN 40040)

Application Condition: Temperature (40°C), Voltage(0.5×UR)

Failure Rate: ≤1Fit Failure Criteria (DIN 44122):Short or open circuit ;

Capacitance change( $\Delta C/C > \pm 10\%$ );

Dissipation factor change ( $\Delta tg\delta > 2 \times$  initial limit);

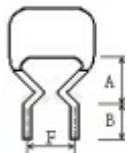
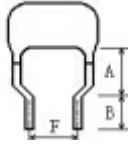
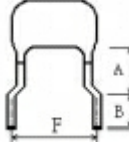
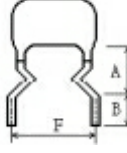
Insulation resistance( $< 0.005 \times$  initial limit).

## Box-type metallized polyester film capacitor[CL23B MPES]

<b>DIMENSIONS &amp; CURRENT VS. FREQUENCY TABLE</b> <small>Pattern I</small>																
Capacitance uF	50/63V				100V				250V				400V			
	W	H	T	P	W	H	T	P	W	H	T	P	W	H	T	P
0.0010	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0012	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0015	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0018	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0022	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0027	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0033	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0039	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0047	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0
0.0056	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0
0.0068	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0
0.0082	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0
0.010	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0
0.012	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	9.5	4.5	5.0
0.015	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	9.5	4.5	5.0
0.018	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	9.5	4.5	5.0
0.022	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0	7.2	10.0	5.0	5.0
0.027	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0	7.2	11.0	6.0	5.0
0.033	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0	7.2	11.0	6.0	5.0
0.039	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0	7.2	11.0	6.0	5.0
0.047	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	9.5	4.5	5.0	7.2	11.0	6.0	5.0
0.056	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	9.5	4.5	5.0				
0.068	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	9.5	4.5	5.0				
0.082	7.2	6.5	2.5	5.0	7.2	6.5	2.5	5.0	7.2	10.0	5.0	5.0				
0.10	7.2	6.5	2.5	5.0	7.2	7.5	3.5	5.0	7.2	10.0	5.0	5.0				
0.12	7.2	6.5	2.5	5.0	7.2	9.5	4.5	5.0	7.2	11.0	6.0	5.0				
0.15	7.2	7.5	3.5	5.0	7.2	9.5	4.5	5.0	7.2	11.0	6.0	5.0				
0.18	7.2	7.5	3.5	5.0	7.2	9.5	4.5	5.0								
0.22	7.2	7.5	3.5	5.0	7.2	10.0	5.0	5.0								
0.27	7.2	9.5	4.5	5.0	7.2	10.0	5.0	5.0								
0.33	7.2	9.5	4.5	5.0	7.2	11.0	6.0	5.0								
0.39	7.2	9.5	4.5	5.0	7.2	11.0	6.0	5.0								
0.47	7.2	10.0	5.0	5.0	7.2	11.0	6.0	5.0								
0.56	7.2	10.0	5.0	5.0	7.2	11.0	6.0	5.0								
0.68	7.2	11.0	6.0	5.0												
0.82	7.2	11.0	6.0	5.0												
1.0	7.2	11.0	6.0	5.0												

# Box-type metallized polyester film capacitor[CL23B MPES]

DIMENSIONS & CURRENT VS. FREQUENCY TABLE <small>Pattern II</small>								
Capacitance uF	50/63V				100V			
	W	H	T	P	W	H	T	P
0.15	7.2	6.5	2.5	5.0				
0.18	7.2	6.5	2.5	5.0				
0.22	7.2	6.5	2.5	5.0				
0.27	7.2	6.5	2.5	5.0				
0.33	7.2	7.5	3.5	5.0				
0.39	7.2	7.5	3.5	5.0				
0.47	7.2	7.5	3.5	5.0				
0.56	7.2	9.5	4.5	5.0				
0.68	7.2	9.5	4.5	5.0	7.2	11.0	6.0	5.0
0.82					7.2	11.0	6.0	5.0
1.0					7.2	11.0	6.0	5.0

HOW TO ORDER							
CL23B Tape	100V Voltage	0.1UF Capacitance	J Tolerance	P5.0 Lead form			
tolerance	±1 %	±1.25 %	±2 %	±3 %	±5 %	±10 %	±20 %
Code	F	A	G	H	J	K	M
Straight lead Code P	Code	P5.0	P7.5	P10.0	P15.0	P22.5	P27.5
	Lead pitch	5.0mm	7.5mm	10.0mm	15.0mm	22.5mm	27.5mm
Forming lead Code F	Code	F5.0	F7.5	F10.0	F15.0	F22.5	F27.5
	Lead pitch	5.0mm	7.5mm	10.0mm	15.0mm	22.5mm	27.5mm
Lead forming shape	Code	<b>I</b>	<b>II</b>	<b>III</b>	<b>IV</b>		
	Forming shape						
	Applicable range	$P \geq F$			$P \leq F$		
	Dimension standard	$0\text{mm} \leq P-F \leq 3\text{mm}$			$3\text{mm} < P-F \leq 8\text{mm}$		
		$3\text{mm} < F-P \leq 5\text{mm}$			$0\text{mm} < F-P \leq 3\text{mm}$		
		A $\leq 5.0\text{mm}$ B=4.5 $\pm 0.5\text{mm}$ ,The permissible tolerance of 'F' is 1.0mm					